

## ASSIGNMENT 1

Textbook Assignment: "Explosives and Pyrotechnics," chapter 1, "Ammunition, Magazines, and Missile Handling," chapter 2, and "Small Arms," chapter 31 pages 1-1 through 3-62.

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| 1-1. Military explosives are divided into what two general classes?<br><br>1. High and very high<br>2. High and medium<br>3. High and low<br>4. Medium and low   | 1-7. The sensitivity of an explosive is measured in what manner?<br><br>1. By the melting point<br>2. By the length of time an explosive can be kept under normal stowage conditions without deterioration<br>3. By the amount of energy necessary to initiate an explosion<br>4. By the range of temperatures that will ignite it |
| 1-2. High explosives are usually produced from what type of products?<br><br>1. Nitration products of organic substances<br>2. Powdered metals<br>3. Waxes<br>4. Plasticizing oils   | 1-8. What method of initiation of an explosive reaction is used in Naval guns?<br><br>1. Heat<br>2. Influence<br>3. Pressure<br>4. Shock   |
| 1-3. What is the definition of a low explosive?<br><br>1. Combustible materials that do not decompose rapidly but do normally detonate<br>2. Combustible materials that decompose rapidly but do not normally detonate<br>3. Non-combustible materials that do not decompose rapidly but do normally detonate<br>4. Non-combustible materials that decompose rapidly and normally detonate | 1-9. Which of the following terms describes a device used to initiate the burning of a propellant charge by means of a flame?<br><br>1. Booster<br>2. Detonator<br>3. Main charge<br>4. Primer   |
| 1-4. The detonation velocity of high explosives is measured in what unit?<br><br>1. Feet per second<br>2. Feet per minute<br>3. Meters per second<br>4. Seconds per foot   | 1-10. Which of the following statements best describes regressive burning?<br><br>1. The surface area of the grains decrease as they burn<br>2. The inner surface increases and the outer surface decreases as they burn<br>3. The total surface area remains the same as it burns<br>4. The surface area increases                |
| 1-5. What device on the Mk 45 gun mount prevents a flareback?<br><br>1. Flash guard<br>2. Gas-expelling devices<br>3. Breech block<br>4. Empty case ejector  | 1-11. What is the oldest explosive known?<br><br>1. Black powder<br>2. Nitrocellulose<br>3. Smokeless powder<br>4. SPC   |
| 1-6. Which of the following terms is a measure of the shattering ability of an explosive?<br><br>1. Brisance<br>2. Heat<br>3. Sensitivity<br>4. Stability  | 1-12. Which of the following ordnance does NOT use black powder?<br><br>1. JATO<br>2. Mk 45 full-service charge<br>3. Practice bombs<br>4. Saluting charges  |

- 1-13. What is the chemical make-up of a powder with the class designation letters of SPCF?
1. Smokeless powder, blended, water-drying process
  2. Smokeless powder, stabilized by ethyl centrality, flashless powder
  3. Smokeless powder, stabilized by diphenylamine, flashless powder
  4. Smokeless powder, nonhygroscopic, reworked by grinding
- 1-14. What is the most commonly used primary (initiating) explosive?
1. Diazodinitrophenol
  2. Lead azide
  3. Lead styphnate
  4. Tetryl
- 1-15. Composition A-5, a booster explosive, is a mixture of which of the following chemicals?
1. 97.5% RDX, 1.5% calcium stearate, 0.5% graphite
  2. 98.5% RDX, 1.5% stearic acid
  3. 95% HMX, 5% fluoroelastomers
  4. 100% tetryl
- 1-16. What are the principal explosives used in the main-charge (burster) explosives filler for gun projectiles?
1. Composition A-5, RDX, explosive D
  2. Composition A-5, PBXN-5, explosive D
  3. Composition A-3, RDX, TNT
  4. Composition A-3, RDX, explosive D
- 1-17. Which of the following is the most powerful, most used, and most brisant of the military high explosives?
1. Composition A-3
  2. Composition A-5
  3. HMX
  4. RDX
- 1-18. What explosive is used in projectiles that must penetrate hard targets, such as armor, without detonating?
1. Explosive D
  2. PBX
  3. Composition C-3
  4. PBXN-106
- 1-19. In the Navy, pyrotechnics are NOT used for which of the following purposes?
1. Blasting
  2. Illuminating
  3. Marking
  4. Signaling
- 1-20. The Mk 58 marine location marker contains what total number of pyrotechnic candles?
1. One
  2. Two
  3. Three
  4. Four
- 1-21. The Mk 58 marine location marker burns approximately what total number of minutes?
1. 10 to 20
  2. 20 to 40
  3. 40 to 60
  4. 60 to 80
- 1-22. What pyrotechnic is found in Navy life rafts?
1. Mk 6
  2. Mk 13
  3. Mk 58 Mod 0
  4. Mk 58 Mod 1
- 1-23. Pyrotechnics information is in which of the following NAVSEA publications?
1. SW050-AB-MMA-010
  2. SW300-BC-SAF-010
  3. SW310-AC-MNA-010
  4. SW320-CD-MMA-010
- 1-24. What is the title of NAVSEA OP 4?
1. Ammunition Ashore
  2. Ammunition Afloat
  3. United States Navy Ordnance Safety Precautions
  4. Ammunition Handling
- 1-25. Gun ammunition is most commonly classified in what manner?
1. By gun size
  2. By assembly configuration
  3. By service use
  4. By purpose
- 1-26. Which of the following is NOT a type of ammunition that is classified by assembly?
1. Fixed
  2. Separated
  3. Separate-loading (bagged gun)
  4. Target and training

- 1-27. Target and training ammunition is in what ammunition classification?
1. Gun size
  2. Assembly configuration
  3. Service use
  4. Construction
- 1-28. A PUFF projectile is in what ammunition classification?
1. Gun size
  2. Assembly configuration
  3. Practice
  4. Construction
- 1-29. A dummy projectile and a drill projectile are used for the same purpose.
1. True
  2. False
- 1-30. Which of the following fuzes is most often used with an armor-piercing projectile?
1. Auxiliary
  2. Combination
  3. Percussion
  4. Time
- 1-31. What factor does the number 78 represent in the ammunition lot number AMC7QD018-124B?
1. The year of production
  2. A code signifying the month of production
  3. The lot intermix number
  4. The lot sequence number
- 1-32. What factor is represented by a yellow band painted on a 5-inch projectile?
1. The ammunition contains a toxic agent
  2. The ammunition contains an irritant agent
  3. Identifies rocket motors
  4. Identifies high explosives
- 1-33. After the item is expended or transferred, the master stock record cards and the ammunition lot/serial location cards are retained for what maximum period of time?
1. 1 year
  2. 2 years
  3. 1 month
  4. 6 months
- 1-34. What publication contains information on ammunition compatibility stowage within a ship's magazine?
1. NAVSEA OP-4
  2. NAVSEA OP-5
  3. SW300-BC-SAF-010
  4. SW323-AF-MMO-010
- 1-35. Magazine spaces are intended for what type of stowage?
1. Ammunition only
  2. Grease cans
  3. Oily waste rags
  4. Personal materials
- 1-36. How often should magazines aboard ship be inspected?
1. Daily
  2. Weekly
  3. Monthly
  4. Bimonthly
- 1-37. Magazine temperature logs should contain a separate section listing the results of which of the following actions?
1. Prefire
  2. Postfire
  3. Magazine inventory
  4. Sprinkler system test
- 1-38. Magazine sprinkler systems are designed to completely flood their designated spaces within what total number of minutes?
1. 10
  2. 30
  3. 40
  4. 60
- 1-39. The test fittings or test castings for the Bailey and Cla-Val models of magazine sprinkler control valves are NOT interchangeable.
1. True
  2. False
- 1-40. The two orifices installed in the control system piping of magazine sprinkling systems are of what size?
1. 0.050 inch
  2. 0.065 inch
  3. 0.098 inch
  4. 2.5 mm

- 1-41. Prior to loading or unloading any ammunition, what action or activity should be outlined and promulgated in the form of a weapons department notice?
1. The arrival conference
  2. The ammunition inspection plan
  3. The loading/offloading plan
  4. The inventory of handling equipment
- 1-42. Anyone who handles ammunition or operates ammunition-handling equipment must be certified under what program?
1. Explosives Ordnance Handling
  2. Explosives-Handling Personnel Qualification and Certification (Qual/Cert)
  3. NAVSEA OP 4
  4. Handling Equipment for Weapons and Explosives
- 1-43. Who is responsible for safety while handling ammunition?
1. Chief Gunner's Mate
  2. Everyone involved
  3. Leading Petty Officer
  4. Weapons Officer
- 1-44. The wheels on a Mk 6 missile transfer dolly can only be locked in what positions?
1. 0° or 180°
  2. 45° or 225°
  3. 60° or 240°
  4. 90° or 270°
- 1-45. What is the maximum effective range, in yards, of the .45-cal. pistol?
1. 25
  2. 50
  3. 75
  4. 90
- 1-46. What action, if any, requires detailed disassembly of the .45-cal. pistol?
1. Prefiring cleaning
  2. Postfiring cleaning
  3. Repair
  4. None
- 1-47. Which of the following knowledge is essential to do a good job of cleaning and repair on any weapon?
1. IPB
  2. The nomenclature of parts
  3. Firing characteristics
  4. Repair parts in stock
- 1-48. On the .45-cal. pistol, the safety lock locks and blocks which of the following components?
1. Locks the slide in the rear position, blocks the sear to keep the hammer in the half-cock position
  2. Locks the slide in the forward position, blocks the sear to prevent any movement of the sear out of the full-cock notch of the hammer
  3. Locks the slide in the rear position, blocks the firing pin
  4. Locks the slide in the forward position, blocks the sear against the firing pin
- 1-49. The M9 pistol magazine has a total capacity of how many rounds?
1. 5
  2. 7
  3. 15
  4. 30
- 1-50. The M9 pistol has a maximum effective range of how many meters?
1. 25
  2. 50
  3. 75
  4. 90
- 1-51. The M14 rifle gas spindle valve is OFF when in which of the following positions?
1. Horizontal
  2. Left
  3. Right
  4. Vertical
- 1-52. The M14 rifle gas spindle valve is turned to the OFF position for what purpose?
1. For cleaning
  2. For automatic firing
  3. To use the line-throwing projectile
  4. To fire tracers
- 1-53. On the Remington M870 shotgun, where is the safety located?
1. Across the front of the trigger guard
  2. Across the rear of the trigger guard
  3. On the fore-end assembly
  4. Top of the stock

- 1-54. On the Remington 870 shotgun, what is the recommended procedure for unloading a chambered unfired round?
1. Push the safety to the FIRE position, pull the fore-end assembly rearward
  2. Push the safety to the SAFE position, push the fore-end assembly forward
  3. Push the safety to the SAFE position, press in the action bar lock, pull the fore-end assembly slowly rearward
  4. Push the safety to the FIRE position, point the weapon in a safe direction, squeeze trigger
- 1-55. On the Remington 870 shotgun, after pulling the trigger, pulling the fore-end assembly rearward will open the action and accomplish which of the following actions?
1. Unlock, extract, and cock only
  2. Unlock, extract, eject, and cock only
  3. Unlock, extract, eject, cock and feed cycle only
  4. Unlock, extract, eject, cock, feed cycle and reload tubular magazine
- 1-56. Before operating the .50-cal. machine gun, what important prefire check requirement must be conducted?
1. Clean bore
  2. Inspect the headspace and timing
  3. Inspect ammunition
  4. Oil moving parts
- 1-57. Due to the high temperature of the barrel, the .50-cal. machine gun, once fully loaded, should always be kept pointed in a safe direction or cleared during breaks in firings because what situation could possibly exist?
1. A "cook-off"
  2. A "hangfire"
  3. A "misfire"
  4. A "meltdown"
- 1-58. When firing the M60 machine gun at a 1000 yard target, what total number of clicks of rear sight adjustment must be made to correct a one yard error in elevation?
1. One
  2. Two
  3. Three
  4. Four
- 1-59. The 25mm M242 automatic gun is powered by which of the following devices during normal operations?
1. Hydraulic power drive
  2. Manual hand crank
  3. Electric motor powered by a 24-volt battery
  4. Electric motor powered by ships 440-volt supply
- 1-60. When firing the M79 grenade launcher at target ranges from 50 to 80 meters, the rear sight frame assembly, if should be in what position?
1. Lowered, battle sight
  2. Upright, adjusted to 50 meters
  3. Upright, adjusted to 80 meters
  4. Removed, no sight necessary
- 1-61. Standard hand grenades have delay fuzes that delay detonation for what total numbers of seconds?
1. One to two
  2. Four to five
  3. Seven to ten
  4. Ten to eleven